

## Operational Amplifier with Self Control Circuit for Realizing High Slew Rate throughout Full Operating Range

### Abstract of the Disclosure

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An operational amplifier comprises: differential input stages to which differential signals can be inputted with full operating range; current source circuits coupled to determine current values of the differential input stages, phase inverter  
10 circuits which are provided between transistors of an output stage circuit and the current source circuits; a driver stage circuit and the output stage circuit. The phase inverter circuits control currents of the current source circuits depending on the output signal potential level. By using this  
15 structure, it becomes possible to realize a high slew rate throughout the full operating range.